



2nd INTERNATIONAL REAL-LIFE EMISSIONS WORKSHOP ON SMALL-SCALE COMBUSTION: Test protocols and TPM determination methods for small-scale solid fuel combustion appliances

Thursday 26th October 2023, 09:30-14:10 (CET)

The Real-LIFE Emissions project consortium coordinated by the University of Eastern Finland organizes the second international workshop which will emphasize on the test protocols and TPM determination methods for small-scale solid fuel combustion appliances. The workshop aims to bring scientists, appliance manufacturers, regulators, and experts in the field to discuss current issues and solutions for residential combustion emissions, sampling methods and protocols.

The workshop will be held also online and the link will be disseminated by October 15th for those who have registered.

WORKSHOP PROGRAMME

Date: Thursday 26th October 2023, 09:30-14:10 (CET, i.e. German time)

Venue (Hybrid): Technology and Support Centre in the Centre of Excellence for Renewable Resources (TFZ), Schulgasse 18, D 94315 Straubing. Also online.

09:00 – 09:30 Registration and coffee

Opening of the Workshop

09:30 – 09:40 Welcoming remarks and programme introduction
Jarkko Tissari & Hans Hartmann, University of Eastern Finland (UEF)/ Technology and Support Centre in the Centre of Excellence for Renewable Resources (TFZ)

Workshop session 1: Test protocols for small scale solid-fuel combustion units

Chair Hans Hartmann, TFZ

09:40 – 10:00 Comparison of existing test protocols for type testing and more real-life test protocols available on the market with the focus on stoves - Report from Action A3 as a summary. *Kamil Krpec, Technical University in Ostrava (VSB)*

10:00 – 10:20 Real LIFE emission test protocol for stoves – Suggestions and first experience. *Claudia Schön, Technology and Support Centre in the Centre of Excellence for Renewable Resources (TFZ)*



- 10:20 – 10:40 Comparison of different test procedures and resulting suggestions for improved test procedure in EN16510. *Franziska Kausch, SINTEF*
- 11:00 – 11:20 Discussion on test protocols
- 11:20 – 12: 20 Lunch break

Workshop session 2: TPM determination from small scale solid-fuel combustion units
Chair Isaline Fraboulet (INERIS)

- 12:20 – 12:40 The effect of dilution ratio and wood species on particulate emissions
Henna Rinta-Kiikka, University of Eastern Finland (UEF).
- 12:40 – 13:00 Correlation of emission compounds based on SIMO database
Juho Louhisalmi, University of Eastern Finland (UEF)
- 13:00 – 13:20 Novel method for TPM determination – Combination of EN-PME and Porous Tube Dilution: Method description and preliminary results
Claudia Schön, Technology and Support Centre in the Centre of Excellence for Renewable Resources (TFZ), Germany
- 13:20 – 13:40 Results from intercomparison campaign for different sampling method: Feedback and preliminary results. *Isaline Fraboulet, The French National Institute for Industrial Environment and Risks (INERIS), France*
- 13:40– 14:05 *Discussions on methods for Real life TPM determination*
- 14:05 – 14:10 *Closing remarks*